

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: Confirmation No.
Applicant(s): FAUVER
Filed:
TC/A.U. :
Title: METHOD AND APPARATUS OF SHADOWGRAM FORMATION FOR
OPTICAL TOMOGRAPHY
Examiner:
Docket No. : 60080US
Customer No. : 23430

Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Commissioner:

This Information Disclosure Statement is submitted:

XX under 37 CFR 1.97(b),
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

X Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware. Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

I hereby certify that this correspondence is being deposited
with the United States Postal Service as first class mail in an

envelope addressed to: Mail Stop DD, Commissioner for
Patents, P.O. Box 1450
Alexandria, VA 22313-1450.

Date of Deposit: 11/18/2003

Typed Name: George A. Leone

Signature: George A. Leone

George A. Leone

George A. Leone

Attorney/Agent for Applicant(s)

Reg. No. 30567

2150 128th Ave. NW

Minneapolis, MN 55448

Telephone No.: 763-767-2762

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Applicant Number	
				Filing Date	
				First Named Inventor	FAUVER
				Art Unit	
				Examiner Name	
Sheet	1	of	9	Attorney Docket Number	60080US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-5,680,484	10/21/1997	Ohyama et al.	Figs 2-3, Col.7-8
		US-4,360,885	11/23/1982	Edgar	FIG. 1,5
		US-5,148,502	9/15/1992	Tsujiuchi et al.	FIG. 1, 12
		US-5,402,460	3/28/1995	Johnson	
		US-6,026,174	2/15/2000	Palcic	
		US- 6,201,628	3/13/2001	Basiji	
		US-20010012069-A1	8/9/2001	Derndinger et al.	
		US-20020161534-A1	10/31/2002	Adler et al.	
		US-3,470,373	9/30/1969	Brewer	
		US-3,497,690	2/24/1970	Wheelless, Jr.	
		US-3,598,471	8/10/1971	Baldwin	
		US-3,657,537	4/18/1972	Wheelless, Jr.	
		US-3,748,468	7/24/1973	Hartman	
		US-3,833,762	9/3/1974	Gudmundsen	
		US-3,960,449	6/1/1976	Carlton	
		US-3,999,047	12/21/1976	Green	
		US-4,175,860	4,175,860	Bacus	
		US-4,200,353	4/29/1980	Hoffman	
		US-4,293,221	10/6/1981	Kay	
		US-4,873,653	10/10/1989	Grosskopf	

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

²Applicant's unique creation designation number (optional). See *Madrid Codes of USP* for Patent Documents at www.uspto.gov or MPEP §901.04.
³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

document under WFO Standard 31, to if possible. Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>		
				Applicant Number		
				Filing Date		
				First Named Inventor		FAUVER
				Art Unit		
Examiner Name						
Sheet	2	of	9	Attorney Docket Number		60080US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-5,141,609-A	8/25/1992	Sweedler et al.	
		US-5,281,517	1/25/1994	Bacus et al.	
		US-5,308,990	5/3/1994	Takahashi et al.	
		US-5,312,535-A	5/17/1994	Waska et al.	
		US-5,321,501	06/14/1994	Swanson et al.	
		US-5,668,887-A	9/16/1997	Parker et al.	
		US-5,710,429	1/20/1998	Alfano et al.	
		US-5,741,411A	4/21/1998	Yeung et al.	
		US-5,760,901	06/02/1998	Hill	
		US-5,760,951	06/02/1998	Dixon et al.	
		US-5,828,408-A	10/27/1998	Mottin et al.	
		US-5,848,123	12/8/1998	Strommer	
		US-5,878,103	3/2/1999	Sauer et al.	
		US-5,880,838	3/9/1999	Marx et al.	
		US-5,909,476	6/1/1999	Cheng et al.	
		US-5,915,048	06/22/1999	Hill et al.	
		US-5,987,158	11/16/1999	Meyer	
		US-6,005,617-A	12/21/1999	Shimamoto et al.	
		US-6,047,080	4/4/2000	Chen et al.	
		US-6,038,067	3/14/2000	George	
		US-6,072,624	6/6/2000	Dixon et al.	
		US-6,091,983	7/18/2000	Alfano et al.	
		US-6,130,958	10/10/2000	Rohler et al.	
		US-6,165,734	12/26/2000	Garini	
		US-6,211,955	4/3/2001	Basiji	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
				Application Number		
				Filing Date		
				First Named Inventor		
				Group Art Unit		
				Examiner Name		
Sheet	4	of	9	Attorney Docket Number		60080US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite, No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		KIKUCHI, S. et al., "Three-dimensional computed tomography for optical microscopes," Optics Communications 107 (1994) 432-444.	
		KIKUCHI, S. et al., "Three-dimensional microscopic computed tomography based on general Radon transform for optical imaging systems," Optics Communications 123 (1996)	
		MATULA, P. et al. "Precise 3D image alignment in micro-axial tomography," Journal of Microscopy, Vol. 209, Pt. 2 (Feb. 2003) pp. 126-142.	
		Ong, SH, Development of an imaging flow cytometer. Anal Quant Cytol Histol 9(5)pp.375-82, 1987.	
		Gilbert, P, "Iterative Methods for the Three dimensional Reconstruction of an Object from Projections," Journal of Theoretical Biology 36pp.105-17, 1972	
		Oppenheim, BE, "More Accurate Algorithms for Iterative 3 dimensional Reconstruction," IEEE Transactions on Nuclear Science NS-21pp.72-7, 1974	
		Singer, JR, Grunbaum, FA, Kohn, P, and Zubelli, JP, "Image Reconstruction of the Interior of Bodies that Diffuse Radiation," Science 248(4958)pp.990-3, 1990	
		Mueller, K and Yage, R, "Rapid 3-D Cone-beam Reconstruction with the Simultaneous Algebraic Reconstruction Technique (SART) Using 2-D Texture Mapping Hardware", IEEE Transactions on Medical imaging 19(12)pp.1227-37, 2001	
		Bellman, SH, Bender, R, Gordon, R, and Rowe, JE, "ART is Science being A Defense of Algebraic Reconstruction Techniques for Three dimensional Electron Microscopy," Journal of Theoretical Biology 32pp.205-16, 1971	
		Manglos, SH, Jaszczak, RJ, and Floyd, CE, "Maximum Likelihood Reconstruction for Cone Beam SPECT: Development and Initial Tests," Physics in Medicine and Biology 34(12)pp.1947-57, 1989, #1382	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Compleat if Kn wn	
				Application Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
Sheet	5	of	9	Attorney Docket Number	60080US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite, No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Manglos, SH, Gagne, GM, Krol A, Thomas, FD, and Narayanaswamy, R, "Transmission Maximum-likelihood Reconstruction with Ordered Subsets for Cone Beam CT", Physics in Medicine and Biology 40(7)pp.1225-41, 1995, #4389	
		Hampel, U and Freyer, R, "Fast Image Reconstruction for Optical Absorption Tomography in Media with Radially Symmetric Boundaries", Medical Physics 25 (1)pp.92-101, 1998	
		Jiang, H, Paulsen, KD, and Osterberg, UL, "Frequency-domain Near-infrared Photo Diffusion Imaging: Initial Evaluation in Multitarget Tissue-like Phantoms", Medical Physics 25(2)pp.183-93, 1998	
		Herman, G, <u>Image Reconstruction from Projections: The Fundamentals of Computerized Tomography</u> , Academic Press, New York, 1980.	
		Paulsen, KD and Jiang, H, "Spatially Varying Optical Property Reconstruction Using a Finite Element Diffusion Equation Approximation", Medical Physics 22(691-701) 1995	
		Farichild Imaging, Preliminary Data Sheet CCD525, TDI, Time Delay and Integration Sensor, 01/12/2001.	
		Farichild Imaging, Preliminary Data Sheet CCD582, TDI, Time Delay and Integration Sensor, 01/18/2000	
		Shapiro, HM, <u>Practical Flow Cytometry</u> , 3 rd ed., Wiley-Liss, 1995	
		HJ Tiziani and MI Uhde, "Three-dimensional analysis by a microlens array confocal arrangements (<i>Applied Optics</i> 33, 567 [1994]).	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Comple t if Known	
				Applicati n Numb r	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				FAUVER	
				Examiner Name	
				Attorney Docket Number	
				60080US	
Sheet	6	of	9		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Bayat, S, Le Duc, G, Porra, L, Berruyer, G, Nemoz, C, Monfraix, S, Fiedler, S, Thomlinson, W, Suortti, P, Standertskjold-Nordenstam, CG, and Sovijarvi, ARA, "Quantitative Functional Lung Imaging with Synchrotron Radiation Using Inhaled Xenon as Contrast Agent", Physics in Medicine and Biology 46(3287-99) 2001.	
		Bentley, MD, Ortiz, MC, Ritman, EL, and Romero, JC, "The Use of Microcomputed Tomography to Study Microvasculature in Small Rodents", American Journal of Physiology (Regulatory Integrative Comp Physiol) 282(R1267-R1279) 2002.	
		Cheng, PC, Lin, TH, Wang, G, Shinozaki, DM, Kim, HG, and Newberry, SP, "Review on the Development of Cone-beam X-ray Microtomography", Proceedings of the X-ray Optics and Microanalysis 1992, Institute of Physics Ser. No.130, Kenway, PB, <i>et al.</i> (eds.), Manchester, UK, August 31-September 4, 1992, pp.559-66.	
		Defrise, M, Clack, R, and Townsend, DW, "Image Reconstruction from Truncated, Two-dimensional, Parallel Projections", Inverse Problems 11(287-313) 1995.	
		Defrise, M, Noo, F, and Kudo, H, "A Solution to the Long-object Problem in Helical Cone-beam Tomography", Physics in Medicine and Biology 45(623-43) 2000.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Applicant Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
Sheet	7	of	9	Attorney Docket Number	60080US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Endo, M, Tsunoo, T, Nakamori, N, and Yoshida, K, "Effect of Scattered Radiation on Image Noise in Cone Beam CT", Medical Physics 28(4) (469-74) 2001.	
		Jorgensen, SM, Demirkaya, O, and Ritman, EL, "Three Dimensional Imaging of Vasculature and Parenchyma in Intact Rodent Organs with X-ray Micro-CT", Am. J. Physiology 275(Heart Circ. Physiol. 44) pp. H1103-14, 1998.	
		Kinney, JH, Johnson, QC, Saroyan, RA, Nichols, MC, Bonse, U, Nusshardt, R, and Pahl, R, "Energy-modulated X-ray Microtomography", Rev. Sci. Instrum. 59(1)pp.196-7, 1988.	
		Kinney, JH and Nichols, MC, "X-ray Tomographic Microscopy (XTM) Using Synchrotron Radiation", Annu. Rev. Mater. Sci. 22pp.121-52, 1992.	
		Taguchi, K and Aradate, H, "Algorithm for Image Reconstruction in Multi-slice Helical CT", Medical Physics 25(4) pp. 550-61, 1998.	
		Yu, DF, Fessler, JA, and Ficaro, EP, "Maximum-Likelihood Transmission Image Reconstruction for Overlapping Transmission Beams", IEEE Transactions on Medical Imaging 19(11)pp.1094-1105, 2000.	
		Sharpe, J, Ahlgren, U et al., "Optical Projection Tomography as a Tool for 3D Microscopy and Gene Expression Studies," SCIENCE, Vol. 296, pp. 541-545, 19 April 2002.	
		Sharpe, J, review, "Optical Projection Tomography as a New Tool for Studying Embryo Anatomy," J. Anat. (2003), PP. 175-181.	
		RH Anderson, "Close-up imaging of documents and displays with lens arrays," <i>Applied Optics</i> 18, 477 (1979).	
		Kak, A.C. and Slaney, M., <u>Principles of Computerized Tomographic Imaging</u> , IEEE Press, New York, 1988	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Applicant Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	
Sheet	8	of	9	60080US	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite, No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		E.G. Steward, <u>Fourier Optics: An Introduction</u> , 2nd ed. (Halsted Press, New York, 1987)	
		A. Klug and J.L. Finch, "Structure of viruses of the papilloma-polyoma type," J. Mol. Biol., vol. 37, p. 1 (1968).	
		A. Klug, "Image analysis and reconstruction in the electron microscopy of biological macromolecules," Chem. Scripta, vol. 14, p. 245 (1978).	
		T.C. Wedberg and J.J. Stamnes, "Recent results in optical diffraction microtomography," Meas. Sci. Technol., vol. 7, p. 414 (1996).	
		Y. Li, et al., "Comparison of analog and digital Fourier transforms in medical image analysis," J. Biomed. Optics, vol. 7, p. 255 (2002).	
		Y. Xu et al., "Three-dimensional diffuse optical tomography of bones and joints," J. Biomed. Optics, vol. 7, p. 88 (2002).	
		H. Banda-Gamboa et al., "Spectral-Analysis of Cervical Cells Using the Discrete Fourier-Transform," Anal. Cell. Path., vol. 5(2), pp. 85-102 (1993).	
		D.E. Burger, et al., "Extraction of Morphological Features from Biological Models and Cells by Fourier Analysis of Static Light Scatter Measurements," Cytometry, Vol. 2, No. 5, pp. 327-336 (1982).	
		M. Rozycka, et al., "Optical Diffraction as a Tool for Semiautomatic, Quantitative Analysis of Tissue Specimens," Cytometry, Vol. 2, No. 4, pp. 244-248 (1982).	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Substitute for form 1449B/PTO				C m p l t i f K n w n	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Applicant Number	
				Filing Date	
				First Named Inventor	FAUVER
				Group Art Unit	
				Examiner Name	
Sheet	9	of	9	Attorney Docket Number	60080US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Almeida and Fuji, Fourier transform differences and averaged similarities in diatoms," Applied Optics, Vol. 18, No. 10, pp. 1663-1667, (1979).	
		Smolinska and Dawidowicz, "Extraction of common or different part from optical images," Institute of Physics, Warsaw Technical University, 222-223.	
		Miles, CP, Jaggard, DL, "The Use of Optical Fourier Transforms to Diagnose Pleomorphism, Size and Chromatin Clumping in Nuclear Models," Anal Quant Cytol Histol Vol. 3, No. 2, pp.149-156, 1981.	
		Dziedzic-Goclawski, et al., "Application of the Optical Fourier Transform for Analysis of the Spatial Distribution of Collagen Fibers in Normal and Osteopetrotic Bone Tissue," Histochemistry (1982) 74:123-137.	
		Ostrowski, et al., "Application of Optical Diffractometry in Studies of Cell Fine Structure," Histochemistry (1983) 78:435-449.	
		Mareel, MM, et al., "Numerical Evaluation of Changes in the Cytoplasmic Microtubule Complex of C3H Mouse Cells by Optical Diffractometry and of Changes in Cell Shape by Fourier Analysis," Cytometry 7:18-24 (1986)	
		Bem, W, et al., "Modification of Chromatin Pattern in the Course of Terminal Differentiation During Human Granulocytopenia: Optical Diffractometry Study," Cellular and Molecular Biology 33(5), 563-571 (1987).	
		Rozycka, M, et al., "Analysis of chromatin pattern in blood lymphocytes of healthy donors and in lymphoid cells of patients with chronic lymphocytic leukaemia," J. Clin. Pathol. 1988;41:504-509.	
		George, JS et al., "Virtual Pinhole Confocal Microscope," Physics Division Progress Report, www.lanl.gov/p/pdfs/papp_pinhole.pdf , (1999-2000).	
		Pawley, JB, <u>HANDBOOK OF BIOLOGICAL CONFOCAL MICROSCOPY</u> , Plenum Press, NY, 479-490 (1995)	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231